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1 [Predicate rewriting for translating Boolean queries in a heterogeneous information system](#)



Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke

January 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 1

Publisher: ACM

 Full text available: [pdf\(350.96 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 5

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each user query and target source, we transform ...

Keyw ords: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

2 An XJML-based wrapper generator for Web information extraction



Ling Liu, Wei Han, David Buttler, Calton Pu, Wei Tang
June 1999 ACM SIGMOD Record, Volume 28 Issue 2

Publisher: ACM

Full text available:  [pdf\(511.63 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 4

3 An XJML-based wrapper generator for Web information extraction



Ling Liu, Wei Han, David Buttler, Calton Pu, Wei Tang
June 1999 SIGMOD '99: Proceedings of the 1999 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [pdf\(511.63 KB\)](#)


Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 4

4 Learning response time for WebSources using query feedback and application in query optimization

Jean-Robert Gruser, Louiqa Raschid, Vladimir Zadorozhny, Tao Zhan
March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(625.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 16, Citation Count: 9

The rapid growth of the Internet and support for interoperability protocols has increased the number of Web accessible sources, WebSources. Current wrapper mediator architectures need to be extended with a wrapper cost model (WCM) for WebSources that ...

Keyw ords: Data-intensive applications on the Web, Query languages and systems for Web data

5 A query based approach for integrating heterogeneous data sources



Ruxandra Domenig, Klaus R. Dittrich

November 2000 CI KM '00: Proceedings of the ninth international conference on Information and knowledge management

Publisher: ACM

Full text available: pdf(213.15 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 39, Citation Count: 2

6 A natural language interface for information retrieval from forms on the World Wide Web

Frank Meng

January 1999 I C I S '99: Proceedings of the 20th international conference on Information Systems

Publisher: Association for Information Systems

Full text available: pdf(146.82 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 32, Citation Count: 3

7 Semantic caching of Web queries

Boris Chidlovskii, Uwe M. Borghoff

March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(235.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 46, Citation Count: 5

In meta-searchers accessing distributed Web-based information repositories, performance is a major issue. Efficient query processing requires an appropriate caching mechanism. Unfortunately, standard page-based as well as tuple-based caching mechanisms ...

Keyw ords: Experiments, Query algorithms, Region containment, Semantic caching, Signature files

8 A mediation infrastructure for digital library services



Sergey Melnik, Hector Garcia-Molina, Andreas Paepcke

June 2000 DL '00: Proceedings of the fifth ACM conference on Digital libraries

Publisher: ACM

Full text available: pdf(155.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 41, Citation Count: 1

Digital library mediators allow interoperation between diverse information services. In this paper we describe a flexible and dynamic mediator infrastructure that allows mediators to be composed from a set of modules ("blades"). Each module implements ...

Keyw ords: component design, interoperability, mediator, wrapper

9 Enhanced abstract data types in object-relational databases

Praveen Seshadri

August 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(119.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 67, Citation Count: 3

The explosion in complex multimedia content makes it crucial for database systems to support such data efficiently. This paper argues that the "blackbox" ADTs used in current object-relational systems inhibit their performance, thereby limiting ...

Keyw ords: Database types, Extensibility, Object-relational database, Query optimization

10 Declarative specification of Web sites with S

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(138.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Citation Count: 22



S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content ...

Keyw ords: Declarative query languages, Web-site management

11 MPICH-GQ: quality-of-service for message passing programs

Alain J. Roy, Ian Foster, William Gropp, Brian Toonen, Nicholas Karonis, Volker Sander
November Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on
2000 Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available:  [pdf\(140.75 KB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 3

Parallel programmers typically assume that all resources required for a program's execution are dedicated to that purpose. However, in local and wide area networks, contention for shared networks, CPUs, and I/O systems can result in significant variations ...

Keyw ords: MPI, Quality of Service, Differentiated Services,TCP

12 Towards efficient and scalable mediation: the AURORA approach

Ling Ling Yan
November CASCON '97: Proceedings of the 1997 conference of the Centre for
1997 Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available:  [pdf\(344.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 19, Citation Count: 0

We develop a 2-tier, plug-and-play mediation model for accessing a large number of heterogeneous data sources. This model defines a divide-and-conquer approach towards information integration. It is more suitable for applications such as electronic commerce ...

13 MOCHA: a self-extensible database middleware system for distributed data



sources

Manuel Rodríguez-Martínez, Nick Roussopoulos
May SI GMOD '00: Proceedings of the 2000 ACM SIGMOD international conference
2000 on Management of data

Publisher: ACM

Full text available:  [pdf\(278.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citation Count: 13

We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system ...

14 [An overview of data warehousing and OLAP technology](#)



Surajit Chaudhuri, Umeshwar Dayal

March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM

Full text available:  [pdf\(101.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 253, Downloads (12 Months): 1832, Citation Count: 203

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database ...


15 [Harp: a distributed query system for legacy public libraries and structured databases](#)



Ee-Peng Lim, Ying Lu

July 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 3

Publisher: ACM

Full text available:  [pdf\(196.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 59, Citation Count: 2

The main purpose of a digital library is to facilitate users easy access to enormous amount of globally networked information. Typically, this information includes preexisting public library catalog data, digitized document collections, and other databases. ...

Keywords: Internet databases, digital libraries, interoperable databases


16 Provision of market services for eCo compliant electronic marketplaces



Sena Arpinar, Asuman Dogac

September 2000 ACM SIGMOD Record, Volume 29 Issue 3

Publisher: ACM

Full text available:  [pdf\(49.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 7, Citation Count: 0

The progress and wider dissemination of electronic commerce will be facilitated through interoperability infrastructures. Commerce Net's eCo framework is a promising effort in this direction. In the eCo framework, businesses participate in a marketplace ...

17 MOCHA: a self-extensible database middleware system for distributed data



[sources](#)

Manuel Rodríguez-Martínez, Nick Roussopoulos

June 2000 ACM SIGMOD Record, Volume 29 Issue 2

Publisher: ACM

Full text available:  [pdf\(278.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citation Count: 13

We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system ...


18 An efficient plan execution system for information management agents



Greg Barish, Dan DiPasquo, Craig A. Knoblock, Steven Minton

November 1999 WIDM '99: Proceedings of the 2nd international workshop on Web information and data management

Publisher: ACM

Full text available:  [pdf\(953.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 20, Citation Count: 0


Recent work on information integration has yielded novel and efficient solutions for gathering data from the World Wide Web. However, there has been little attention given to the problem of providing information management capabilities that closely model ...

19 [Prototype for wrapping and visualizing geo-referenced data in a distributed environment using XML technology](#)



Jianting Zhang, Muhammad Javed, Amir Shaheen, Le Gruenwald
November 2000 GIS '00: Proceedings of the 8th ACM international symposium on
Advances in geographic information systems

Publisher: ACM

Full text available:  [pdf\(618.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 2

This paper proposes a prototype for integration and visualization of geo-referenced information (GRI) in a distributed environment in general and World Wide Web in particular. This prototype adopts a three-tier architecture and includes three main components: ...


Keyw ords: XML, geo-referenced information, integration, visualization

20 [WSQ/DSQ: a practical approach for combined querying of databases and the Web](#)



Roy Goldman, Jennifer Widom
June 2000 ACM SIGMOD Record, Volume 29 Issue 2

Publisher: ACM

Full text available:  [pdf\(223.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 74, Citation Count: 15

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web ...





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